

## DESCRIPTION

Casting resin and filler for mechanical applications multiple.

## PROPERTIES

- 2-component liquid epoxy resin
- Solvent free
- Rigid
- Room temperature curing

PHYSICAL PROPERTIES				
Composition		RESIN RE 22891-(98)	HARDENER EPOLAM 2010	MIXED
Mix ratio by weight		100	15	-
Mix ratio by volume at 25 °C		100	24	-
Aspect		liquid	liquid	liquid
Colour		black	light amber	black
Viscosity at 25 °C (mPa.s)	BROOKFIELD LVT	6700	70	1240
Specific gravity at 25 °C (g/cm <sup>3</sup> )	ISO 1675 : 1985	1.58	0.98	-
Specific gravity of cured product at 23 °C	ISO 2781 : 1996	-	-	1.54
Pot life at 25 °C on 200 g (min)	Gel Timer TECAM	-	-	170

## PROCESSING CONDITIONS

Before use it is necessary to mix the part B (resin) until both colour and aspect become homogeneous.

Both parts (resin and hardener) have to be mixed at a temperature between 18 °C and 25 °C according to the mix ratio indicated.

Before casting check that parts or moulds are free of any trace of moisture

MECHANICAL PROPERTIES at 23 °C (1)			
Hardness	ISO 868 : 2003	Shore D1 / D15	85
Tensile modulus	ISO 527 : 1993	MPa	2750
Tensile strength	ISO 527 : 1993 ISO 37 : 2011	MPa	15
Elongation at break	ISO 527 : 1993 ISO 37 : 2011	%	1.8
Flexural modulus	ISO 178 : 2010	MPa	1900
Flexural strength	ISO 178 : 2010	MPa	26
Flexural strain at flexural strength	ISO 178 : 2010	%	2.8
Impact strength (CHARPY) <i>Unnotched specimens</i>	ISO 179/1eU : 1994	kJ/m <sup>2</sup>	4.6

(1): Average values obtained on standard specimens / Hardening 16 hours at 80 °C.

**THERMAL AND SPECIFIC PROPERTIES (1)**

Working temperature	-	-	-40+120
Glass transition temperature (tg)	ISO 11359-2 : 1999	°C	48
Coefficient of thermal expansion (CTE) (+15°C to +90°C)	ISO 11359-2 : 1999	10 <sup>-6</sup> K <sup>-1</sup>	
Directive 2002/95/EC (ROHS) (2)	-	-	Coform

(2) : Directive européenne relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques.

**HANDLING PRECAUTIONS**

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation
- Wear gloves, safety glasses and waterproof clothes

For further information, please consult the product safety data sheet.

**STORAGE CONDITIONS**

Shelf life is 12 months for resin and 12 months for hardener in a dry place and in their original unopened containers at a temperature between 15 and 25 °C  
Any open must be tightly closed under dry nitrogen.

**GUARANTEE**

The information contained in this technical data sheet result from research and tests conducted in our Laboratories under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON guarantee the conformity of their products with their specifications but cannot guarantee the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.